

**SALTO**  
inspiredaccess

product brochure 2007



## Introduction

Welcome to the world of intelligent locking solutions, providing security, flexibility and control. Welcome to the world of SALTO.

In today's fast moving and constantly changing world nothing stays the same for long. New working practices and new employees means security too has to continually change and evolve to keep pace. As a result buildings and workspaces need to be flexible and adaptable, ready to incorporate new technologies using stand alone door units with real time on-line systems that are inspiring to use, simple to install and able to work with existing IT networks.

SALTO is able to offer all this and more. We are the selected access control option on over 300,000 doors, on more than 3,500 projects in over 52 countries. The power of the SALTO Virtual Network (SVN) allows people to work wire free enabling them to manage their key control requirements efficiently, flexibly and cost effectively.

Find out more about SALTO and our commitment to supply the access control market with a totally user friendly, stand alone system that will provide any building with the flexibility it needs to function safely in an ever changing and demanding security environment.

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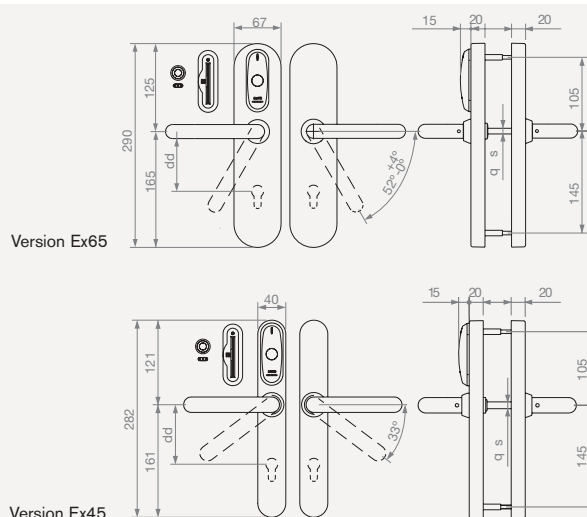
## XS4 NETWORKED ELECTRONIC HANDLE SETS



## XS4 Comfort Electronic handle sets for European Mortise Locks:

XS4 is the new access control platform from SALTO enabling users to control and manage a greater range of applications than ever before. Smart, secure and innovative, XS4 Comfort Electronic handle sets need no hard wiring and provide a totally wire free networked electronic locking solution with a great range of features.

The XS4-40 narrow version and the XS4-67 wide body version are specially designed to fit on most Euro profile doors, and work with the majority of European mortise locks and cylinders.



### Main features and benefits:

- Virtual network capable.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Available in iButton, Contact Smart Card and RFID versions.
- Compatible with ISO 14.443A, ISO 14.443B and ISO 15.693 (Vicinity) and covering a wide range of mainstream RFID brands such as Mifare, DESfire, Legic, HID iClass and Picopass.
- SALTO is compatible with NFC (Near Field Communication) technology which allows NFC enabled cell phones to act as contactless data carriers to open and control SALTO access controlled doors.
- The lock can always be opened from the inside (a single action panic feature works in conjunction with the relevant mortise lock).
- Simple off-line installation is possible on any type of door, including those with narrow frames.
- Covers door thicknesses of between 30-115mm.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) as low battery status information is written onto carriers and passed to the software. Also readings can be taken at the lock and passed to the software via PPD connection. Emergency opening by means of portable programming device (PPD).
- Office mode ("passage" setting) for leaving doors in free access mode available.
- Ability to work with the majority of European lock types, including Swiss cylinders and some tubular latches.
- Available with mechanical cylinder cut outs for key override or access lock outs in all of the above mentioned locks. Available in 7, 8 and 9mm spindle versions.
- Choice of 40mm narrow or 67mm wide body.
- Extreme security through advanced hardened high resistance anti-drill plates to protect wires and reader area and additional extreme protection through hardened axes and floating steel balls in the handle area.
- Concealed fixing screws for greater security and improved aesthetics.
- Mechanical override with audit trail facility.
- DDA (Disability Discrimination Act) compliant (depending on handle type).

### Technical data:

- Current required: 3 alkaline batteries - LR03 - AAA 1,5V – Optional 3 Lithium batteries FR03 - AAA 1,5V (see environmental conditions). In case of XS4 67 Models LR6 - AA batteries are required.
- Number of openings: from 30.000 openings (RFID) up-to 90.000 on 1 set of batteries.
- Environmental conditions: External escutcheon: -20° / 70° Internal electronic handle sets: -20° / 70° (with Lithium batteries).
- Highest EN standards including EN1906 level 2 & 3.
- IP54 Protection rating in the case of iButton and RFID.
- Maximum number of users per door: 64.000
- Maximum number of doors in a system; 64.000
- Maximum events on lock audit :1000

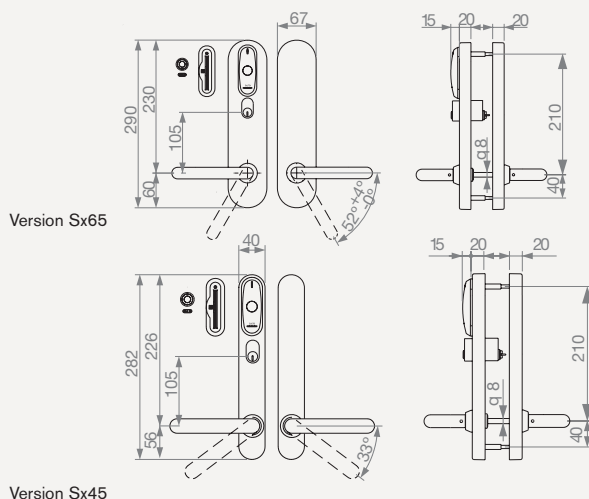
- Timezones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1024
- User groups: unlimited
- Available lock modes:
  - Standard (locked at all times).
  - Office (free passage), & timed office (automatic locking at end time).
  - Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays).
  - Toggle (present card to lock, present card to unlock), & time toggle (automatic locking at end time).

# XS4 NETWORKED ELECTRONIC HANDLE SETS

## XS4 Comfort Electronic handle sets for Scandinavian Modular Mortise Locks:

XS4 is the new access control platform from SALTO enabling users to control and manage a greater range of applications than ever before. Smart, secure and innovative, XS4 Comfort Electronic handle sets for Scandinavian locks have been specially designed to operate on existing Scandinavian Modular locks. Like the European versions they need no hard wiring and provide a totally wire free networked electronic locking solution with a great range of features.

The XS4-40 narrow version and the XS4-67 wide body version are specially designed to fit on most Scandinavian profile doors, and work with most Scandinavian mortise locks and cylinders.



### Main features and benefits:

- Virtual network capable.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Available in iButton, Contact Smart Card and RFID versions.
- Compatible with ISO 14.443A, ISO 14.443B and ISO 15.693 (Vicinity) and covering a wide range of mainstream RFID brands such as Mifare, DESfire, Legic, HID iClass and Picopass.
- SALTO is compatible with NFC (Near Field Communication) technology which allows NFC enabled cell phones to act as contactless data carriers to open and control SALTO access controlled doors.
- The lock can always be opened from the inside (a single action panic feature works in conjunction with the relevant mortise lock).
- Simple off-line installation is possible on any type of door, including those with narrow frames.
- Covers door thicknesses of between 30-115mm.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) as low battery status information is written onto carriers and passed to the software. Also readings can be taken at the lock and passed to the software via PPD connection. Emergency opening by means of portable programming device (PPD).
- Office mode ("passage" setting) for leaving doors in free access mode available.
- Choice of 40mm narrow or 67mm wide body.
- Extreme security through advanced hardened high resistance anti-drill plates to protect wires and reader area and additional extreme protection through hardened axes and floating steel balls in the handle area.
- Concealed fixing screws for greater security and improved aesthetics.
- Mechanical override with audit trail facility.
- DDA (Disability Discrimination Act) compliant (depending on handle type).

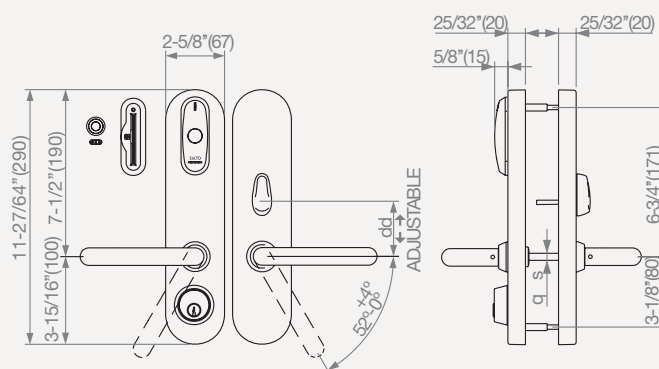
### Technical data:

- Current required: 3 alkaline batteries - LR03 - AAA 1,5V – Optional 3 Lithium batteries FR03 - AAA 1,5V (see environmental conditions). In case of XS4 67 Models, LR6 - AA batteries are required.
- Number of openings: from 30,000 openings (RFID) up-to 90.000 on 1 set of batteries.
- Environmental conditions: External escutcheon: -20° / 70° Internal electronic handle sets: -20° / 70° (with Lithium batteries).
- Highest EN standards including EN1609 level 2 & 3.
- IP54 Protection rating in the case of iButton and RFID.
- Maximum number of users per door: 64.000
- Maximum number of doors in a system; 64.000
- Maximum events on lock audit :1000
- Timezones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1024
- User groups: unlimited
- Available lock modes:
  - Standard (locked at all times)
  - Office (free passage), & timed office (automatic locking at end time).
  - Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays).
  - Toggle (present card to lock, present card to unlock), & timed toggle (automatic locking at end time).

## XS4 Comfort Electronic handle sets for ANSI Modular Mortise locks:

XS4 is the new access control platform from SALTO enabling users to control and manage a greater range of applications than ever before. Smart, secure and innovative, XS4 Comfort Electronic handle sets need no hard wiring and provide a totally wire free networked electronic locking solution with a great range of features.

This version is specially designed to be compatible with most ANSI mortise locks and tubular latches.



Version Ax65

### Main features and benefits:

- Virtual network capable.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Available in iButton, Contact Smart Card and RFID versions.
- Compatible with ISO 14.443A, ISO 14.443B and ISO 15.693 (Vicinity) and covering a wide range of mainstream RFID brands such as Mifare, DESfire, Legic, HID iClass and Picopass.
- SALTO is compatible with NFC (Near Field Communication) technology which allows NFC enabled cell phones to act as contactless data carriers to open and control SALTO access controlled doors.
- The lock can always be opened from the inside (a single action panic feature works in conjunction with the relevant mortise lock).
- Simple off-line installation is possible on any type of door, including those with narrow frames.
- Covers door thicknesses of between 30-115mm.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) as low battery status information is written onto carriers and passed to the software. Also readings can be taken at the lock and passed to the software via PPD connection. Emergency opening by means of portable programming device (PPD).
- Office mode ("passage" setting) for leaving doors in free access mode available.
- 67mm wide body.
- Concealed fixing screws for greater security and improved aesthetics.
- Extreme security through advanced hardened high resistance anti-drill plates to protect wires and reader area and additional extreme protection through hardened axes and floating steel balls in the handle area.
- Available in 8mm standard spindle and 7mm diamond spindle.
- Mechanical override with audit trail facility (1 1/8" Mortise cylinder).
- ADA (Americans with Disabilities Act) compliant (depending on handle model).

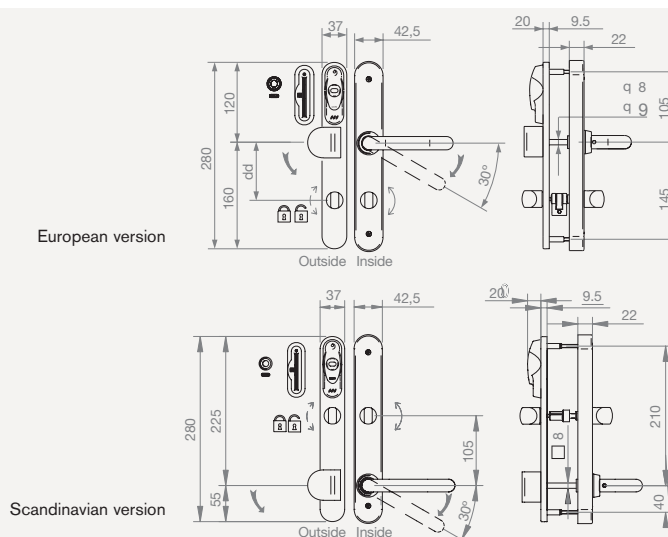
### Technical data:

- |   |   |
|---|---|
| · Current required: 3 alkaline batteries - LR6 - AA 1,5V – Optional Lithium batteries FR6 - AA 1,5V (see environmental conditions). | · Time periods: 30  |
| · Number of openings: from 30.000 openings (RFID) up-to 90.000 on 1 set of batteries.   | · Calendars in system: 256  |
| · Environmental conditions: External escutcheon: -20° / 70° Internal electronic handle sets: -20° / 70° (with Lithium batteries).   | · Zones in system: 1024   |
| · Highest EN standards including EN1609 level 2 & 3.  | · User groups: unlimited  |
| · IP54 Protection rating in the case of iButton and RFID.   | · Available lock modes:   |
| · Maximum number of users per door: 64.000  | · standard (locked at all times)  |
| · Maximum number of doors in a system: 64.000   | · Office (free passage), & timed office (automatic locking at end time) automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays), toggle (present card to lock, present card to unlock), & timed toggle (automatic locking at end time) |
| · Maximum events on lock audit :1000  |   |
| · Timezones: 256  |   |

# XS4 NETWORKED ELECTRONIC HANDLE SETS

## Security Electronic handle sets for European and Scandinavian Mortise Locks:

The SALTO security range is ideal for use on doors where a higher level of security protection is required. Their tough vandal resistant construction protects the locks against attack and unauthorised entry, without losing the access flexibility or control of the system.



### Main features and benefits:

- Virtual network capable.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Available in iButton, Contact Smart Card and RFID versions.
- Compatible with ISO 14.443A, ISO 14.443B and ISO 15.693 (Vicinity) and covering a wide range of mainstream RFID brands such as Mifare, DESfire, Legic, HID iClass and Picopass.
- SALTO is compatible with NFC (Near Field Communication) technology which allows NFC enabled cell phones to act as contactless data carriers to open and control SALTO access controlled doors.
- Electronic turn control of mortise deadbolt, latch or hook bolt operation (depending on mortise lock functionality) via Euro profile cylinder cut out.
- The lock can always be opened from the inside (an anti-panic feature works in combination with the lock).
- Hardened steel anti-drill plates and vandal resistance protection due to the electronics being housed in the inner backplate.
- Simple off-line installation is possible on any type of door, including those with narrow frames.
- Covers door thicknesses of between 30-115mm.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) as low battery status information is written onto carriers and passed to the software. Also readings can be taken at the lock and passed to the software via PPD connection. Emergency opening by means of portable programming device (PPD).
- Office mode ("passage" setting) for leaving doors in free access mode available.
- Ability to work with the majority of European lock types, including Scandinavian mortise locks, Swiss cylinders and tubular latches.
- Will work with multi point locking systems.
- DDA (Disability Discrimination Act) compliant (depending on handle type).

### Technical data:

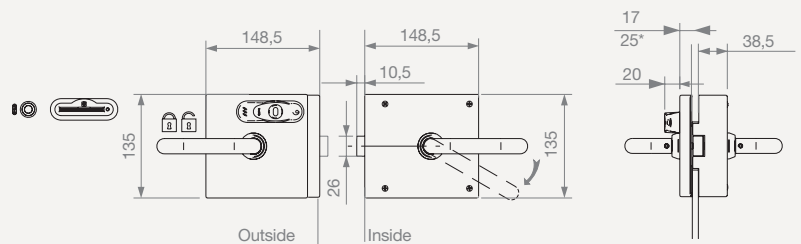
- Current required: 3 alkaline batteries - LR03 - AAA 1,5V – Optional 3 Lithium batteries FR03 - AAA 1,5V (see environmental conditions)
- Number of openings: from 30,000 openings (RFID) up-to 90.000 on 1 set of batteries
- Environmental conditions: External escutcheon: -20° / 70° Internal electronic handle sets: -20° / 70° (with Lithium batteries)
- IP54 Protection rating in the case of iButton and RFID
- Maximum number of users per door: 64.000
- Maximum number of doors in a system; 64.000
- Maximum events on lock audit :1000
- Timezones: 256
- Time periods: 30

- Calendars in system: 256
- Zones in system: 1024
- User groups: unlimited
- Available lock modes:
  - Standard (locked at all times)
  - Office (free passage), & timed office (automatic locking at end time)
  - Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
  - Toggle (present card to lock, present card to unlock), & timed toggle (automatic locking at end time)

## XS4 Glass door lock:

XS4 is the new access control platform from SALTO enabling users to control and manage a greater range of applications than ever before. Smart, secure and innovative, XS4 Comfort Electronic handle sets need no hard wiring and provide a totally wire free networked electronic locking solution with a great range of features.

The XS4 glass door lock is stylish and modern and is compatible with a wide range of glass door designs, including those already fitted with built-in locks.



## Main features and benefits:

- Virtual network capable.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Available in iButton, Contact Smart Card and RFID versions.
- Compatible with ISO 14.443A, ISO 14.443B and ISO 15.693 (Vicinity) and covering a wide range of mainstream RFID brands such as Mifare, DESfire, Legic, HID iClass and Picopass.
- SALTO is compatible with NFC (Near Field Communication) technology which allows NFC enabled cell phones to act as contactless data carriers to open and control SALTO access controlled doors.
- The lock can always be opened from the inside (a panic feature works in combination with the lock).
- Its "sandwich body" design makes for easy installation without having to replace the door.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) as low battery status information is written onto carriers and passed to the software. Also readings can be taken at the lock and passed to the software via PPD connection. Emergency opening by means of portable programming device (PPD).
- Office mode ("passage" setting) for leaving doors in free access mode available.
- Mortice lock incorporated in to the electronic handle set.
- DDA (Disability Discrimination Act) compliant (depending on handle type).

## Technical data:

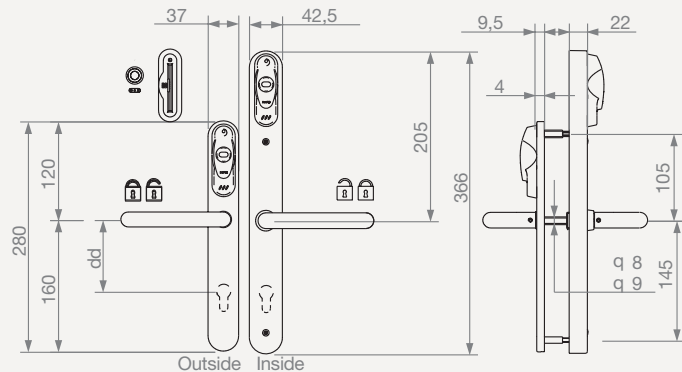
- |   |   |
|---|---|
| · Current required: 3 alkaline batteries - LR03 - AAA 1,5V – Optional 3 Lithium batteries FR03 - AAA 1,5V (see environmental conditions). | · Calendars in system: 256  |
| · Number of openings: from 30.000 openings (RFID) up-to 90.000 on 1 set of batteries.   | · Zones: 1024   |
| · Environmental conditions: External escutcheon: -20° / 70° Internal electronic handle sets: -20° / 70° (with Lithium batteries).         | · User groups: unlimited  |
| · IP54 Protection rating in the case of iButton and RFID.   | · Available lock modes:   |
| · Maximum number of users per door: 64.000  | · Standard (locked at all times)  |
| · Maximum number of doors in a system; 64.000   | · Office (free passage), & timed office (automatic locking at end time)                                 |
| · Maximum events on lock audit :1000  | · Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)              |
| · Timezones in system: 256  | · Toggle (present card to lock, present card to unlock), & timed toggle (automatic locking at end time) |
| · Time periods: 30  |   |

# XS4 NETWORKED ELECTRONIC HANDLE SETS

## XS4 double reader:

XS4 is the new access control platform from SALTO enabling users to control and manage a greater range of applications than ever before. Smart, secure and innovative, XS4 Comfort Electronic handle sets need no hard wiring and provide a totally wire free networked electronic locking solution with a great range of features.

XS4 double reader electronic handle sets control both entry and exit access of a door. Its audit trail facility can identify both entry and exit actions and it can be fitted in almost any type of Euro profile door. It will also work with a wide range of locks including Swiss cylinders.



## Main features and benefits:

- Virtual network capable.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- The lock can identify who is entering or exiting the door and record this event.
- Dual handle blocking mechanism.
- Available in iButton, Contact Smart Card and RFID versions.
- Identifies entry and exit in RFID and Smart Card models.
- Compatible with ISO 14.443A, ISO 14.443B and ISO 15.693 (Vicinity) and covering a wide range of mainstream RFID brands such as Mifare, DESfire, Legic, HID iClass and Picopass.
- SALTO is compatible with NFC (Near Field Communication) technology which allows NFC enabled cell phones to act as contactless data carriers to open and control SALTO access controlled doors.
- Simple off-line installation is possible on any type of door, including those with narrow frames.
- Covers door thicknesses of between 30-115mm.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) as low battery status information is written onto carriers and passed to the software. Also readings can be taken at the lock and passed to the software via PPD connection.
- Emergency opening by means of portable programming device (PPD).
- Office mode ("passage" setting) for leaving doors in free access mode available.
- Ability to work with the majority of European lock types, including Swiss cylinders and some tubular latches.
- Available with mechanical cylinder cut outs for key override or access lock outs in all of the above mentioned locks.
- DDA (Disability Discrimination Act) compliant (depending on handle type).

## Technical data:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· Current required: 3 alkaline batteries - LR03 - AAA 1,5V – Optional 3 Lithium batteries FR03 - AAA 1,5V (see environmental conditions)</li> <li>· Number of openings: from 30.000 openings (RFID) up-to 90.000 on 1 set of batteries</li> <li>· Environmental conditions: External escutcheon: -20° / 70° Internal electronic handle sets: -20° / 70° (with Lithium batteries)</li> <li>· IP54 Protection rating in the case of iButton and RFID</li> <li>· Maximum number of users per door: 64.000</li> <li>· Maximum number of doors in a system: 64.000</li> <li>· Maximum events on lock audit :1000</li> <li>· Timezones in system: 256</li> <li>· Time periods: 30</li> </ul> | <ul style="list-style-type: none"> <li>· Calendars in system: 256</li> <li>· Zones: 1024</li> <li>· User groups: unlimited</li> <li>· Available lock modes:                             <ul style="list-style-type: none"> <li>· Standard (locked at all times)</li> <li>· Office (free passage), &amp; timed office (automatic locking at end time)</li> <li>· Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)</li> <li>· Toggle (present card to lock, present card to unlock), &amp; timed toggle (automatic locking at end time)</li> </ul> </li> </ul> |
|---|--|

**Handles:**

XS4 offers a wide choice of functional and Italian styled designer handles suitable for use on any type of door. Many of the lever handles have been designed to meet the latest DDA (Disability Discrimination Act) requirements, ensuring they are simple and easy for anyone to operate. Various finish options are available to allow for contemporary or classic styling to match any taste and design in décor, and to help in DDA impaired vision requirements.



REF. U



REF. S

REF. W

REF. H

REF. C

REF. P

REF. B

REF. A\*

REF. O

REF. K

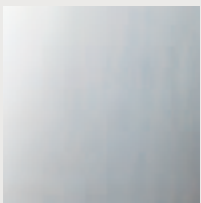
\*Only available for ANSI and Scandinavian models.

**Finishes:**

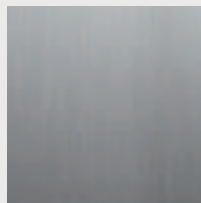
**Stainless steel handles finishes**

Ref.: U/H/W/C/S/B/P/A

Ref.: U/H/W/C/S/B/P/A



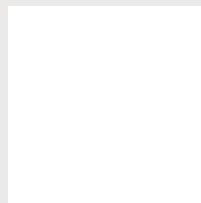
Satin stainless steel



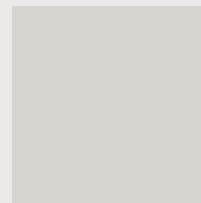
Polished stainless steel



Black



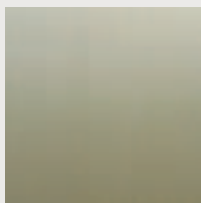
White



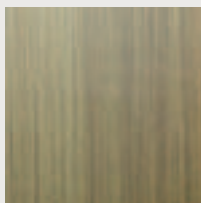
Coloured

**Brass handles finishes**

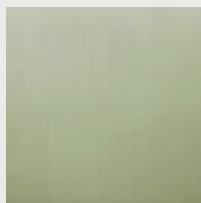
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Polished Brass



Antique Brass



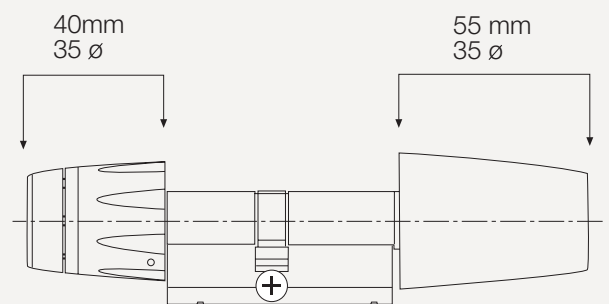
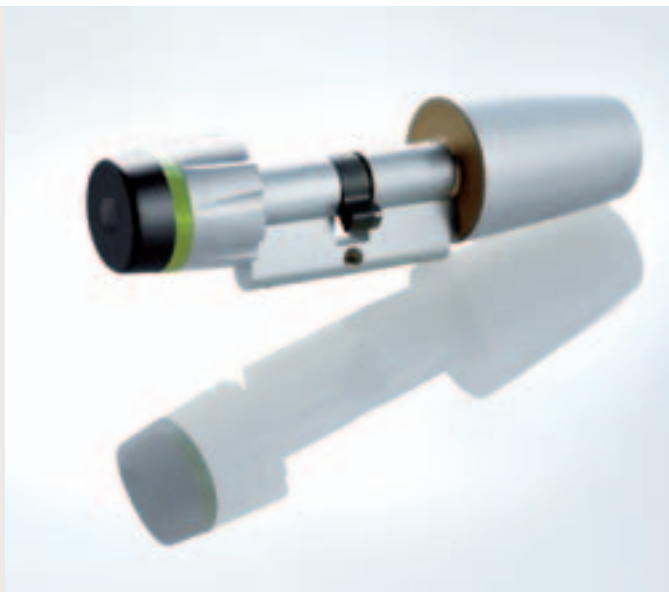
Satin Brass

## ELECTRONIC CYLINDER



## E-cylinders:

The electronic SALTO thumbturn cylinder is, an excellent access control solution for those doors where fitting an electronic handleset is not possible, like for instance an antique door of a protected building. The exchange of data on changes of authorizations and on events is carried out by the means of the virtual network of the respective identification media.



### Main features and benefits:

- Virtual network SVN.
- The cylinder can always be opened from the inside (panic function).
- Available in iButton and RFID versions.
- SALTO is compatible with NFC (Near Field Communication) technology which allows NFC enabled cell phones to act as contactless data carriers to open and control SALTO access controlled doors.
- Easy offline instalation for all types of doors (also tubular steel doors).
- "Empty battery" indication by software via SVN. Information on battery status is written on the identification medium.
- Automatic change to/from daylight saving time.
- Free access mode available.
- In particular designed for Europrofil and Swiss Round.
- Visual and acustic indications.
- Emergency opening by means of PPD.
- Blocking mechanism module and battery in the protected interior of the escutcheon.
- Firmware upgradable by means of PPD Firmware Updater.
- No loss of data and time when changing batteries.

### Technical data:

- Battery: 1 Lithium battery CR17345
- Duration: 30.000 openings RFID 60.000 openings iButton
- Type of protection: IP 55 being tested
- Identification media: iButton RW and RFID
- Number of users: max. 64.000
- Memory: max. 1.000 events
- Opening mode:
  - Standard
  - Automatic opening
  - Toggle
  - Timmed toggle

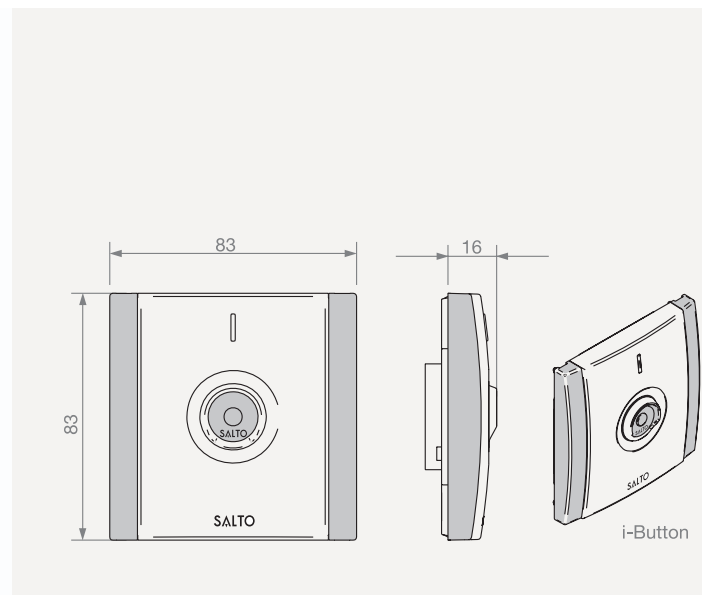
## WALL READERS



## WRM iButton:

The WRM1000 & WRM2000 are SALTO iButton wall readers. They read data from the iButton carriers and then communicate it to the control units. They also allow for updating of the carriers via the SALTO Virtual Network technology.

The reader is IP 56 compliant and features a built-in heater making it suitable for use indoors and out, including environments exposed to harsh weather conditions.



### Main features and benefits:

- Reading by contact with the iButton.
- Can be flush or surface mounted depending on the base (available separately).
- WRM1000 to be used with CU2010.
- WRM2000 to be used with CU5000, CU50EN and CU50ENSVN Control Units.
- Red and Green coloured LED to indicate lock authorisation, only WRM2000.
- Blue coloured LED to indicate carrier updating.
- Built-in heater.
- For external use and protection against vandalism it can be used with the FWAV cover and flush mounting base.
- Can be combined with Personal Identification Number (PIN) code pad for dual identification, only WRM2000.
- Compatible with standard electrical back boxes for easy fitting.
- Can be used for integration with other systems through the addition of the Wall Reader Adaptor or Control Unit Adaptor.

### Technical data:

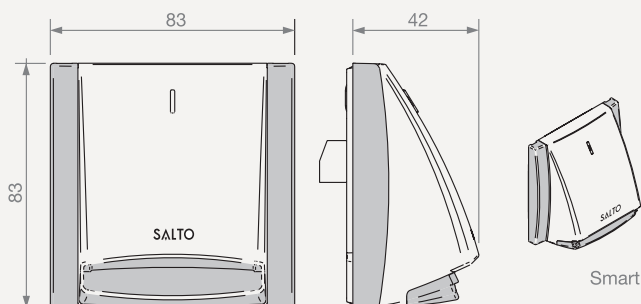
- Body made of die cast Zinc Alloy
- Reader made of Stainless Steel
- IP-56 compliant
- The maximum cable length between the control unit and the wall reader is up-to 100mtrs. (WRM1000 50 mtrs.) with twisted pair cable
- Size: 83 x 83 x 16 mm (W x H x D)
- Connection to the control unit using UTP CAT 5 cable
- 5V supplied by the control unit
- For surface mounting with the WRMBH
- For flush mounting with WRMBL

# WALL READERS

## WRM Contact Smart Card:

The WRM6000 is the SALTO Contact Smart Card wall reader. It reads encrypted data from the carriers and then communicates it to the control units. It also allows for updating of the carriers via the SALTO Virtual Network technology.

The WRM6000 features a built-in heater making it suitable for use indoors and out, including environments exposed to harsh weather conditions.



### Main features and benefits:

- Reading by contact of the chip on insertion of the card.
- Equipped with a protective reading slot for all weather use.
- To be used with CU5010, CU5000, CU50EN and CU50ENSVN.
- Red and Green coloured LED to indicate lock authorisation.
- Blue coloured LED to indicate carrier updating.
- With Heater incorporated.
- For external use and protection against vandalism it can be used with FWAV and flush mounting base.
- Can be combined with Personal Identification Code pad for dual identification (not available with CU5010).
- Compatible with standard electrical boxes for easy fitting.
- Can be used for integration with other systems through the Wall Reader Adaptor or Control Unit Adaptor.
- For Flush mounting or surface mounting depending on the base (to be ordered separately).
- Firmware upgradable by means of PPD Firmware Updater.

### Technical data:

- Body made of die cast Zinc Alloy
- Card slot made in PC + ABS UL94 V0
- Maximum cable length between the control unit and the wall reader: 100m with CU5000, CU50EN and CU50ENSVN and 50m with the CU5010
- Connection to the control unit using UTP CAT 5 cable
- Size: 83 x 83 x 42 mm (W x H x D)
- 5V supplied by the control unit
- For surface mounting with the WRMBH
- For flush mounting with WRMBL

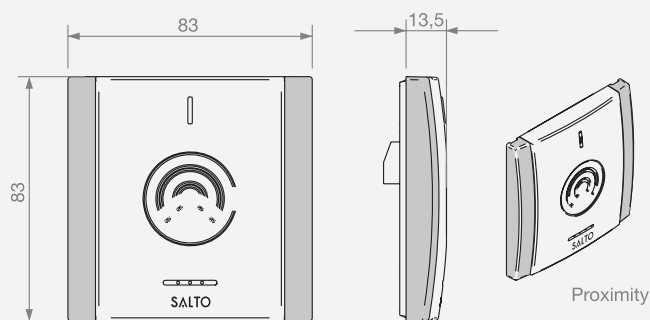
## WRM Contact less Smart Card:

SALTO offers a broad range of 13,56Mhz RFID Contact less Smart Card wall readers. They read encrypted data from the carriers and then communicate it to the control units. They also allow for updating of the carriers via the SALTO Virtual Network technology.

All models are IP 56 compliant making them suitable for use indoors and out, including environments exposed to harsh weather conditions.

Compatible with ISO 14.443A, ISO 14.443B and ISO 15.693 (Vicinity) and covering a wide range of mainstream RFID brands such as Mifare, DESfire, Legic, HID iClass and Picopass.

SALTO is compatible with NFC (Near Field Communication) technology which allows NFC enabled cell phones to act as contactless data carriers to open and control SALTO access controlled doors.



### Main features and benefits:

- Contact less reading of the carrier.
- NFC compatible (WRM9 series).
- Off-line and On-line units depending on the control unit connected.
- To be used with CU5000, CU50EN and CU50ENSVN Control Units.
- Red and Green coloured LED to indicate lock authorisation.
- Blue coloured LED to indicate carrier updating.
- For external use and protection against vandalism it can be used with FWAV and flush mounting base.
- Can be combined with Personal Identification Code pad for dual identification.
- Compatible with standard electrical boxes for easy fitting.
- Can be used for integration with other systems through the Wall Reader Adaptor.
- For Flush mounting or surface mounting depending on the base (to be ordered separately).
- Will read through many non metallic materials.
- Firmware upgradable by means of PPD Firmware Updater.

### Technical data:

- Maximum cable length between the control unit and the wall reader: 100m
- Connection to the control unit using UTP CAT 5 cable
- IP-56 compliant
- Size: 83 x 83 x 13,5 mm (W x H x D)
- Reading distance: Up-to 50mm depending on RFID technology
- Off line versions available with PPD connector
- 5V supplied by the control unity
- For surface mounting with the WRMBH
- For flush mounting with WRMBL

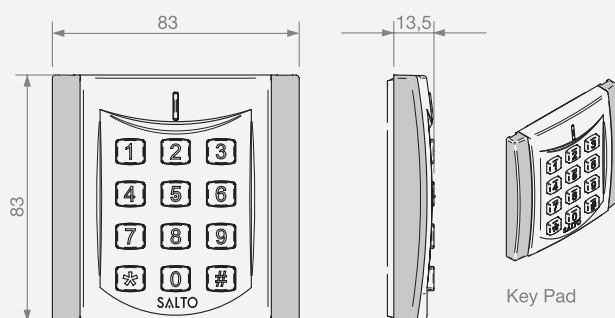
## WALL READERS

### PIN Key Pad:

#### WRMKP Key Pad:

Compatible with SALTO WRM 2000, 6000, 7000, 7001, 8000, 8001, 9000 and 9001 wall readers, the WRMKP key pad allows for additional use of a Personal Identification Number (PIN).

It should be mounted on one of the SALTO WRM double mount bases.



#### Main features:

- PIN needed with ID carrier to gain access and obtain card update.
- Door code only option for non key holders.
- PIN needed for SVN key update.
- Timed PIN option for ID carrier only operation and then ID carrier plus PIN use.

#### Technical data:

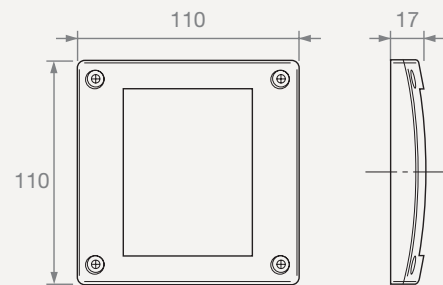
- Body made of die cast Zinc Alloy with Satin Chrome finishing
- Keys made of AISI 316 L Stainless Steel
- IP-56 compliant
- Size: 83 x 83 x 13,5 mm (W x H x D)
- 5V Supplied by the WRM wall reader
- For surface mounting with the WRMBH
- For flush mounting with WRMBL
- Connection to the wall reader with a built in cable

## Accessories:

### WRMFWAV:

Anti Vandal Frame.

Accessory designed to protect the WRM from adverse and violent environments.

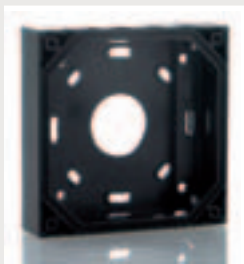


### Main features:

- Made of die cast Zinc Alloy with Satin Chrome finishing.
- Fastened with Torx 10 Anti Tamper Screws.
- To be fitted with WRMBL1.

## Mounting options for modular wall readers:

Single and double bases for surface mounting



WRMBH1



WRMBH2

Single and double bases for flush mounting

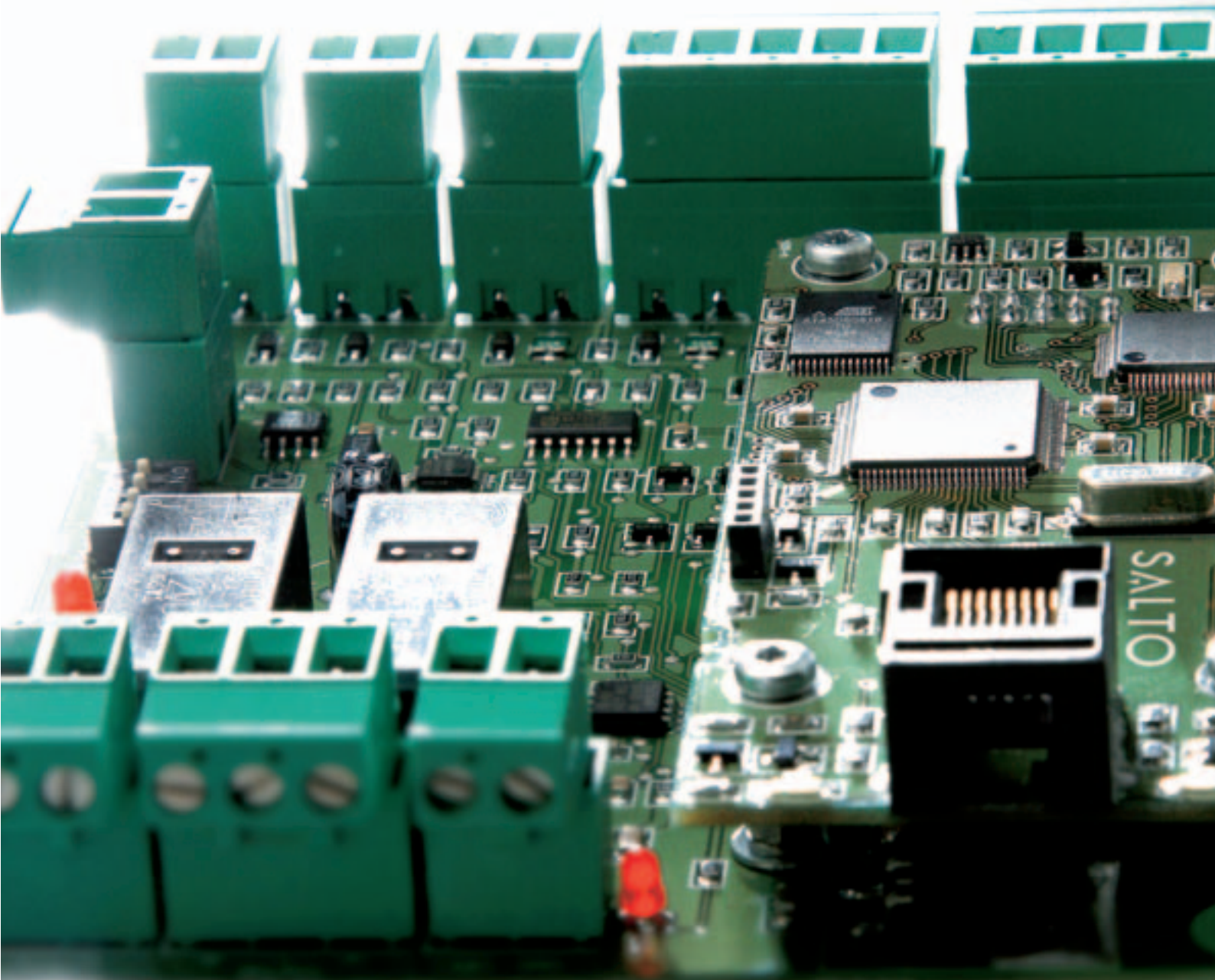


WRMBL1



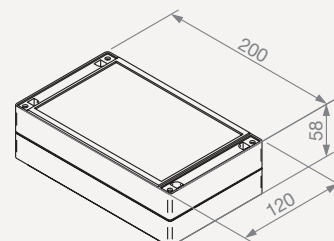
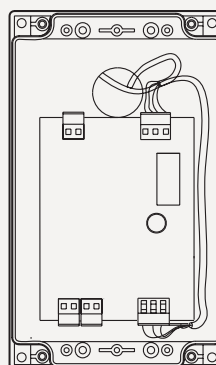
WRMBL2

# CONTROL UNITS



## CU2010:

Designed for use with the SALTO WRM1000 wall reader, the Off Line CU2010 is a relay output control unit that can be connected to the WRM1000 wall reader. It offers single wall reader connection and a single output control relay.



### Main features:

- To be used only with WRM1000 wall reader.
- Off line Unit.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Allows for control of relay switched locking devices, such as electronic locks, electric strikes, magnets, barriers, lifts, shutters, automatic door openers, bollards and more.
- Request to Exit (RTE) switch input.
- Door state input.
- Managed by software.
- Set up made with Portable Programming Device (PPD).
- Update made with Portable Programming Device (PPD).
- User ID carrier deletion through SVN technology if the carrier has been updated.
- Maximum number of users: 64.000
- Maximum number of doors in system: 64.000
- Maximum events on audit: 1.000 events
- Timezones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1024
- User groups: unlimited

### Opening modes:

- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
- Automatic Opening + Office
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)

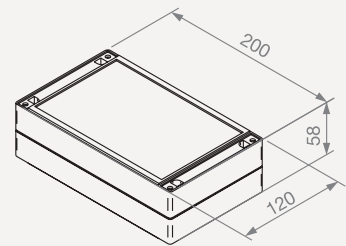
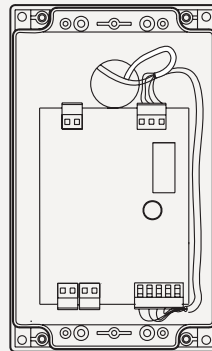
### Technical data:

- Current required: 12Vdc / 500mA 6VA adaptor included
- Number of wall reader connections: 1
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 50m
- Number of relays: 1
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC
- Cabling to the relay: any kind of cable that supports the load
- Operating Temperature: -20°C to 80°C
- Certificates:
  - CE: 89/336/EEC (Electromagnetic Compatibility).
  - EN 55022 (1994), Class B
  - EN 50082 (1997)

# CONTROL UNITS

## CU5010:

Designed for use with the SALTO WRM6000 and WRM8001 wall readers, the Off Line CU5010 is a relay output control unit that can be connected to the WRM6000 and WRM8001 wall readers (single wall reader connection and single output control relay).



### Main features:

- Off line Unit.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Request to Exit (RTE) switch input.
- Door state input.
- Managed by software.
- Deleted user or cancelled cards removed through SVN technology if the control unit has been updated via an updated user card.
- Set up made with Portable Programming Device (PPD).
- Update made with Portable Programming Device (PPD) and/or SVN.
- Anti pass back mode.
- Maximum user number: 64.000
- Maximum door number: 64.000
- Maximum events on audit: 1.000 events
- Timezones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1024
- User groups: unlimited

### Opening modes:

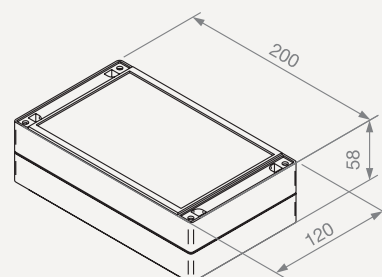
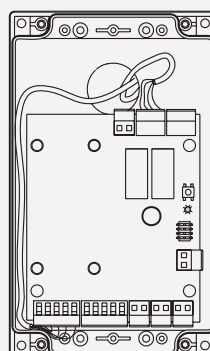
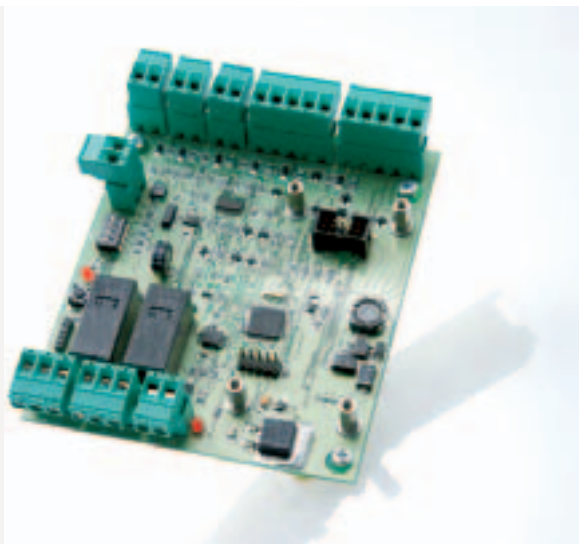
- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
- Automatic Opening + Office.
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)

### Technical data:

- Current required: 12 v / 500mA 6VA adaptor included
- Number of wall readers: 1
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 50m
- Number of relays: 1
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC
- Cabling to the relay: Any kind of cable that supports the load
- Temperature: -20°C to 80°C
- Certificates:
  - CE: 89/336/EEC (Electromagnetic Compatibility)
  - EN 55022 (1994), Class B
  - EN 50082 (1997)

## CU5000:

The SALTO CU5000 is a single door Off Line Control Unit that can have 1 or 2 wall readers connected and has 2 control relay outputs.



### Main features:

- Read in – Read out locking, with 2 wall readers used back to back.
- Relay output 2 has the ability to work in several different modes.
- Anti pass back mode available by connecting 2 wall readers, ideal for controlling use of main entrances, parking barriers (IN&OUT), elevators (with EB5008) etc.
- It can also be used with the SALTO WRMPK key pad for user verification and PIN code only mode access.
- Request to Exit (RTE) switch input.
- Door monitoring and tamper monitoring via contacts input.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Managed by software.
- Deleted user or cancelled cards removed through SVN technology if the control unit has been updated via an updated user card.
- Set up made with Portable Programming Device (PPD).
- Update made with Portable Programming Device (PPD) and/or SVN.
- Upgradable to on line unit type CU50EN or CU50ENSVN.
- Firmware upgradable by means of PPD Firmware Updater.
- Capability to control temporary 4 external relay outputs (with EB5008).
- Maximum user number: 64.000
- Maximum door number: 64.000
- Maximum events on audit: 3.000 events

- Timezones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1024
- User groups: unlimited

### Opening modes:

- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
- Automatic Opening + Office
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)
- Toggle + Automatic Opening
- Keypad Only
- Timed Key pad
- Key + PIN
- Timed key + PIN
- Automatic changes

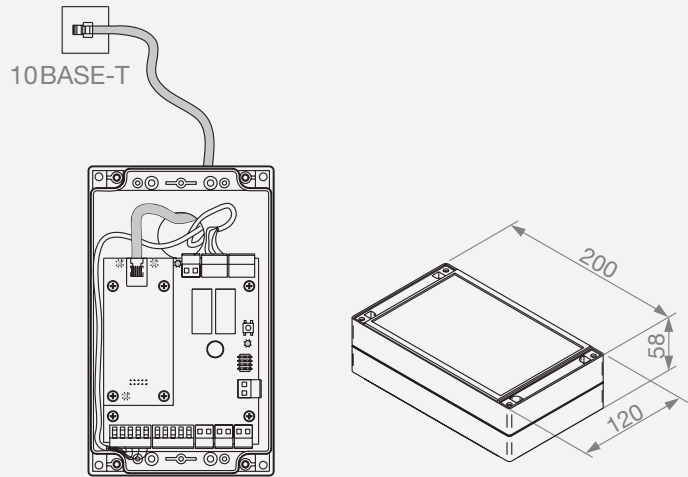
### Technical data:

- Current required: 12 v / 500mA 6VA adaptor included
- Number of wall readers: 2
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 100m
- Number of relays: 2 (Optionally extended to 128, see relay extension board)
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC
- Cabling to the relay: Any kind of cable that supports the load
- Temperature: -20°C to 80°C
- Certificates:
  - CE EN 55022 (1994), Class B
  - EN 61000-6-1 (2001)
  - EN 61000-6-2 (2001)
  - EN 61000-4-2 (1995)
  - EN 61000-4-3 (1995)
  - EN 55024 (1998)

# CONTROL UNITS

## CU50EN:

The SALTO CU50EN is an On Line Control Unit that can have 1 or 2 wall readers connected and has 2 control relay outputs. Access control changes can be carried out on the Salto software and are then actioned at these control units in real time. It provides full on line features via the networked Ethernet/WIFI link such as door monitoring status, remotely controlling door opening and Roll Call.



### Main features:

- Real time Access Control changes:
  - Live monitoring of user entry and exit through the control unit.
  - Live audit trail build up on the software.
  - Door monitoring status for forced door and door left open scenarios.
  - Remote door opening from software.
  - Door lock out, or lock open emergency setting from software.
  - The control unit can be included in a roll call set up used, for example, for user location monitoring, parking control etc.
- Read in – Read out locking, with 2 wall readers used back to back.
- Relay output 2 has the ability to work in several different modes.
- Anti pass back mode available by connecting 2 wall readers, ideal for controlling use of main entrances, parking barriers (IN&OUT), elevators (with Relay extension board) etc.
- It can also be used with the SALTO WRMPK key pad for user verification and PIN code only mode access.
- Firmware upgradable by means of PPD Firmware Updater.
- Capability to control temporary 4 external relay outputs (with EB5008).
- Works as online Hub up to 40 On Line Energy Saving Devices.
- Request to Exit (RTE) switch input.
- Door and tamper monitoring via contacts input.
- Connected to standard Ethernet/WIFI network.
- Managed by software.
- Works off line if network connection is lost.
- Compatible with all the Salto WRM (except WRM1000).
- Deleted user or cancelled cards removed live through the network link.
- Set up made through online connection directly from the PC.
- Update made through online connection directly from the PC.
- Data transfer security: All communications between the CU and the PC are encrypted by a proprietary algorithm. In addition the CU is protected by a 3DES encrypted challenge / response.
- Upgradable to: CU50ENSVN.
- Maximum user number: 64.000
- Maximum door number: 64.000
- Maximum events on audit: Unlimited in on line mode. In off line mode 3.000 audits.
- Timezones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1.024
- User groups: unlimited

### Opening modes:

- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
- Automatic Opening + Office
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)
- Toggle + Automatic Opening
- Keypad Only
- Timed Key pad
- Key + PIN
- Timed key + PIN
- Automatic changes

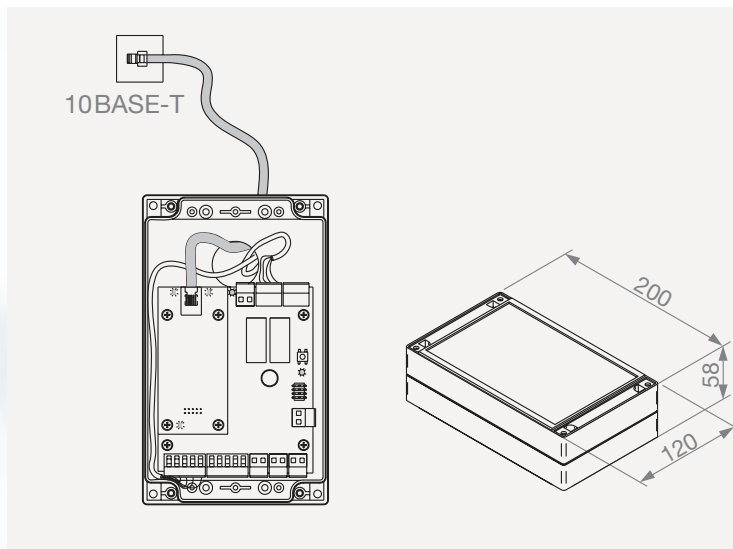
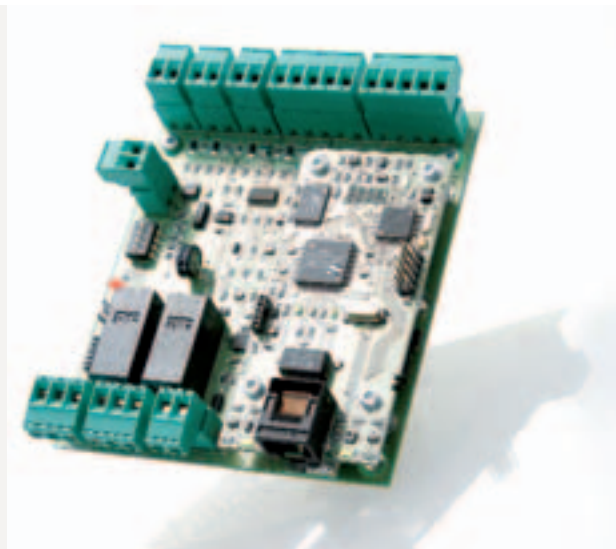
### Technical data:

- Current required: 12 v/ 500mA 6VA adaptor included
- Number of wall readers: 2
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 100m.
- Number of relays: 2 (Optionally extended to 128, see relay extension board)
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC.
- Cabling to the relay: Any kind of cable that can support the load.
- Temperature: -20°C to 80°C
- Certificates:
  - CE : EN 55022 (1994), Class B
  - EN 61000-6-1 (2001)
  - EN 61000-6-2 (2001)
  - EN 61000-4-2 (1995)
  - EN 61000-4-3 (1995)
  - EN 55024 (1998)

## CU50ENSVN:

The SALTO CU50ENSVN is an On Line Control Unit that can have 1 or 2 wall readers connected and has 2 control relay outputs and has SALTO Virtual Net (SVN) capabilities. Cards are automatically updated with the latest changes in the access plan, it records the user audit into the PC, provides advanced information on battery status and continually updates the cancelled ID carrier black list.

Access control changes can be carried out on the Salto software and are then actioned at these control units in real time. It provides full on line features via the networked live link such as door monitoring status, remotely controlling door opening and Roll Call.



### Main features:

- SVN capabilities in order to manage the XS4 stand alone electronic handle sets, Electronic cylinder and off line control units:
  - The ability to add or delete access privileges at will to the ID carriers.
  - The ability to program in 256 different time zones.
  - Carry out updating tasks changing access times/days using up to 50 different calendars.
  - The ability to validate the expiry date of key cards on any SVN on-line wall reader.
  - The ability to add security through additional authenticated validation procedures including pin codes as well the ability to blacklist cards from the system.
  - On card audit-trailing to track staff or visitor movement.
  - Lock specific battery power data is registered on any card using the lock – staff or visitor – and transferred back to the PC control software via any update reader just by using the system.
- Real time Access Control changes.
  - Live monitoring of user entry and exit through the control unit.
  - Live audit trail build up on the software.
  - Door monitoring status for forced door and door left open scenarios.
  - Remote door opening from software.
  - Door lock out, or lock open emergency setting from software.
  - The control unit can be included in a roll call set up used, for example, for user location monitoring etc.
- Read in – Read out locking, with 2 wall readers used back to back.
- Relay output 2 has the ability to work in several different modes.
- Anti pass back mode available by connecting 2 wall readers, ideal for controlling use of main entrances, parking barriers (IN&OUT), elevators (with Relay extension board) etc.
- It can also be used with the SALTO WRMPK key pad for user verification and PIN code only mode access.
- Firmware upgradable by means of PPD Firmware Updater.
- Capability to control temporary 4 external relay outputs (with EB5008).
- Works as online Hub up to 40 On Line Energy Saving Devices.
- Request to Exit (RTE) switch input.
- Door and tamper monitoring via contacts input.
- Connected to standard Ethernet/WIFI network.
- Managed by software.
- Works off line if network connection is lost (except for updates).
- Compatible with all the Salto WRM (except WRM1000).
- Deleted user or cancelled cards removed live through the network link.
- Set up made through online connection directly from the PC.
- Update made through online connection directly from the PC.
- Data transfer security: All communications between the CU and the PC are encrypted by a proprietary algorithm. In addition the CU is protected by a 3DES encrypted challenge / response.
- Maximum user number: 64.000
- Maximum door number: 64.000
- Maximum events on audit: Unlimited in on line mode. In off line mode 3000 audits.
- Timezones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1.024
- User groups: unlimited

### Opening modes:

- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
- Automatic Opening + Office
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)
- Toggle + Automatic Opening
- Keypad Only
- Timed Key pad
- Key + PIN
- Timed key + PIN
- Automatic changes

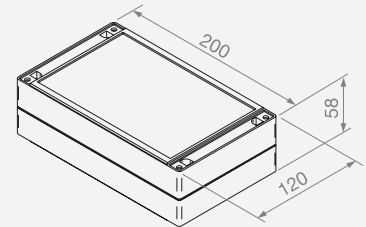
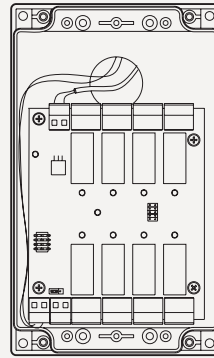
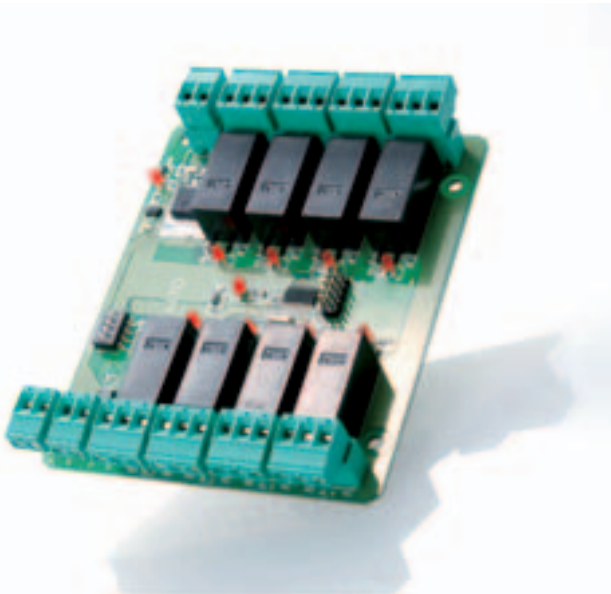
### Technical data:

- Current required: 12 v/ 500mA 6VA adaptor included
- Number of wall readers: 2
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 100m.
- Number of relays: 2 (Optionally extended to 128, see relay extension board)
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC
- Cabling to the relay: Any kind of cable that can support the load
- Temperature: -20°C to 80°C
- Certificates:
  - CE: CE EN 55022 (1994), Class B
  - EN 61000-6-1 (2001)
  - EN 61000-6-2 (2001)
  - EN 61000-4-2 (1995)
  - EN 61000-4-3 (1995)
  - EN 55024 (1998)

# CONTROL UNITS

## EB5008 Salto Relay Extention Board: (multi relay output control board)

The EB5008 is a device which when connected to the CU5000, CU50EN or CU50ENSVN control units offers the possibility of managing multi relay switch able output systems such as elevator floor level access, multi shutter and barrier systems, machine switching etc.



### Main features:

- Up to 16 EB5008's can be connected in series to 1 control Unit which allows you to manage up to 128 outputs.
- Each output has user access (triggering) rights controlled from the software.
- Compatible with all the Salto WRM and CU5000, CU50EN or CU50ENSVN control units.

### Technical data:

- Current required: 12 v/ 500mA 6VA adaptor included
- Number of relays each board: 8 (Max. of 16 EB5008 board in series, totalling 128 relays)
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC
- Cabling to the relay: Any kind of cable that support the load
- Temperature: -20°C to 80°C
- Certificates:
  - CE: 89/336/EEC (Electromagnetic Compatibility)
  - EN 55022 (1994), class B
  - EN 50082 (1997)

## WR ADAPT:

### Wall Reader Adaptor

With the SALTO Wall Reader Adaptor the integration is possible between Salto and third part devices, as time and attendance, POS etc.

The Wall Reader Adaptor is designed to read some data from the RW carriers and send this data to an external device.

The Wall Reader Adaptor is connected by one side to any SALTO Wall Reader, and by the other side to the external device.

The interface with the external device can be RS232, OMRON and WIEGAND.



#### Main features:

- Configuration by dip switches to control the data to be read and the kind of interfaces with external device.

#### Technical data:

- Power supply: from 7 and 15 V from external device.  
Optionally can be powered through the jack connector.
- Connection to the reader: UTP CAT5 Cable.
- Connection to the external device: 4 pins block terminal.
- Current consumption: 15-80mA depending on the reader technology.
- Data read by the WRADAPT: ROM CODE, TRACKS ON KEY, WIEGAND CODE.

## CU ADAPT:

### Control Unit Adaptor

With the SALTO Control Unit Adaptor the integration is possible between SALTO and third part devices, as time and attendance.

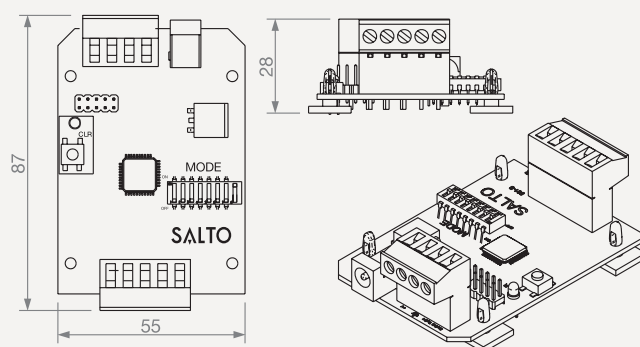
The Control Unit Adaptor is designed to allow users to update their cards at the reading point which they use on a daily basis, like for instance a Time and Attendance terminal.

The Salto wall reader and Control unit will update and revalidate the card (see CU50ENSVN for all features) and then send the relevant ID data to the 3rd party device like a T&A controller.

Now you can access a door with all the convenience of SALTO access control, and control at the same time the attendance of your staff, in a same process.

The CU Adaptor is connected by one side to any SALTO Control Unit, and by the other side to the external device.

The interface with the external device can be RS232, OMRON and WIEGAND.



#### Main features:

- Configuration by dip switches to control the data to be read and the kind of interfaces with external device.

#### Technical data:

- Power supply: 12 volts from the Control Unit
- Connection to the CU: UTP CAT5 Cable
- Connection to the external device: 4 pins block terminal
- Current consumption: 15-80mA depending on the reader technology
- Data read by the WRADAPT: ROM CODE, TRACKS ON KEY, WIEGAND CODE

# I-LOCKERS

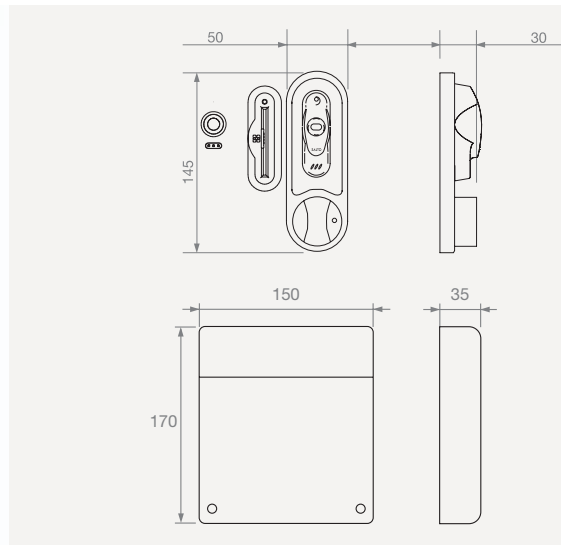


## i-Locker:

The SALTO i-Locker electronic locker lock is designed to provide a high level of security protection for lockers and cabinets etc. It features a large twist operated locking turn for ease of use, and the access reader is built into the outside escutcheon. The locking mechanism, electronic components and battery pack are all located on the inside of the door, safe from potential manipulation or vandalism.

A wide choice of ID-carriers for use with the lock is available to suit individual preferences including iButton, Smart Card, and the salto RFID technologies (Mifare, DESfire, Vicinity, HID iClass, Legic, Picopass) contained within a choice of card, wristband, key fob or bracelet formats.

The iLocker is perfect for controlling access to lockers, cupboards, cabinets, cabins, boxes, show cases, where access control and full audit trailing are required, eg where valuables such as medical drugs, electronic equipment, museum pieces are stored.



## Main features:

### Operating and software options:

- Visible locked / unlocked indicator.
- Optional inside turn available for walk in cabins, cupboards, toilets etc. where the door can always be opened from the inside.
- Full access control rights programmed via software.
- Virtual network capable.
- Simple off-line installation is possible on many types of small and thin doors.
- Lock with large security deadbolt is built into the iLocker.
- Low battery power indication monitored through the SALTO Virtual Network (SVN) as low battery status information is written onto carriers and passed to the software. Also readings can be taken at the lock and passed to the software via PPD connection.
- Ideal for retro fit applications as outside escutcheon rotates for different door handing and styles.
- Audit of 1.000 last events.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Emergency opening through Portable Programming Device (PPD).

- Locker operation modes:
  - Fixed locker assignment where a specific ID carrier operates a specific lock.
  - Free locker assignment where any ID carrier subsequently used to unlock a locker takes control.
  - Family option – Allows for multiple ID Carriers to operate a single locker.

## Technical data:

- Battery Pack: Sabotage protected on the inside together with decision making electronics. Can only be opened by using special tool
- Power source: 3 alkaline batteries - LR03 - AAA 1,5V – Optional 3 Lithium batteries FR03 - AAA 1,5V (see environmental conditions)
- Outside temperature range: -20°C to +70°C; without condensation
- Inner temperature range: 0°C to +50°C (operating levels of the batteries) -20° / 70° with Lithium batteries; without condensation
- Security Class: According EN 60529 for electronic handle sets including reader and lock case
- Door thickness: Door thickness between 10-30mm. Adaptable on site. For door thicknesses of less then 10mm there are 1mm and 2mm supplements available. For single wall steel doors a fitting preparation is necessary.

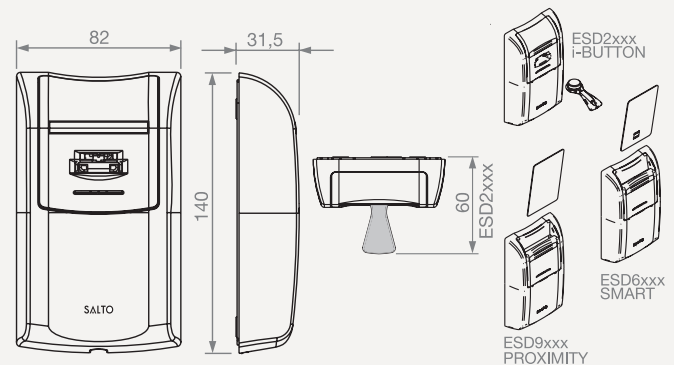
## ENERGY SAVING DEVICES



## Energy Saving Devices:

The SALTO in room energy saving device (ESD) helps to save up to 65% of a hotel room's electricity consumption and unlike standard (magnetic stripe) energy savers, only authorized SALTO key cards will switch on the lights. Any other card (frequent flyer, business card etc) will not be recognised.

It is also available a connected on line version, which as well as energy saving indicates in real time the presence of guests or staff in a room, logging the information directly into the hotel PC. When a guest enters the room and inserts their card into the ESD it switches on all electrical equipment. When staff enter the room for cleaning or maintenance, the ESD recognises their staff card and switches on only the electrical equipment they need to accomplish their work. The TV, air conditioning and mini bar are switched off or locked – saving energy.



### Main features:

- 2 different finishes for different room styles.
- Available with 1 or 2 relay outputs.
- With window detector input.
- If window is left open, the system will switch off the air conditioning.
- Flexible exit time delay by software.
- Modern Blue LED indicator which indicates the location of the device in the dark, and blinks as a courtesy indicator after retrieving the card when leaving the room.
- Available in iButton, smart card and RFID (Mifare, Desfire, Vicinity).
- On line version available in contact smart card and RFID models.

### Technical data:

- Input voltage: 220 Volts AC +-15%
- Consumption: 2watts in rest mode, 2.5 watts when activated
- Number of relays: 1 or 2
- Relays power cut:
  - 16A, 220 volts with resistor loads
  - 10A, 220 volts with inductive loads (fluorescent lamps, high efficiency lamps, motors, air conditioners)
- Max. section for power and relays contacts connector: Straded wire section: 12 AWG (2,5mm<sup>2</sup>). Strip length: 4-5mm.
- Max section for windows detector connector: Stranded wire section:16 AWG (0,5mm<sup>2</sup>). Strip length: 4-5mm.
- Connected version:
  - Serial connected by bus RS485. Last ESD of the series must be connected to a Salto ON LINE control Unit (CU50EN or CU50ENSVN)
  - Max. Number of ESD connected per CU: 40

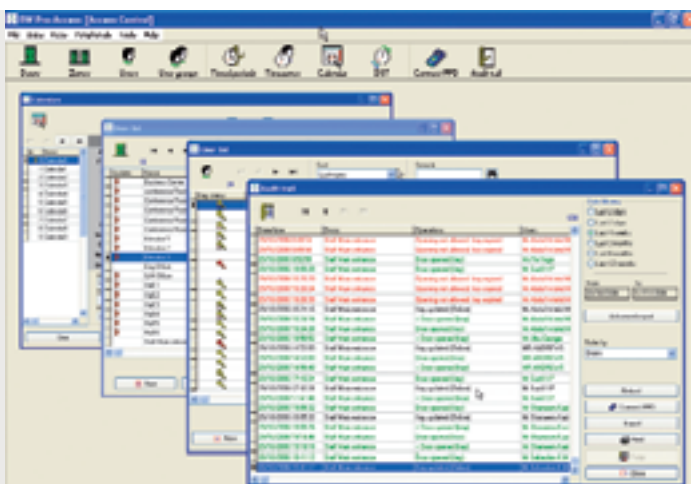
# ACCESS CONTROL MANAGEMENT



## Software Pro Access:

SALTO Pro Access Software has been developed to create a powerful Access Control Management tool. Its main features allow you to program in access time zones for each user, take into account different company calendars, obtain audit-trails from the door to see who has passed through it, and it includes special functions like automatic changes of the door status, anti pass back and relay management (i.e. lifts).

Pro Access can manage large numbers of door installations, and as most access related information is written on the credential, the management of the doors becomes, in most cases, a management of the credential. By simply updating the badge, you can change most access related authorisations of the users, including adding/deleting doors, time zones, calendars etc.



## Versions:

- Pro Access 100 R&W up to 100 users and 4 on line doors.
- Pro Access 500 R&W up to 500 users and 8 on line doors.
- Pro Access Excellence up to 64.000 users and 16 on line doors.
- Pro Access Connected up to 64.000 users and unlimited on line doors.
- Pro Access Department Operator up to 64.000 users, unlimited on line doors and department operator management.
- Pro Access Department Operator Ship (Salto Hosting Interface Protocol).

## Main features:

- Up to 64.000 users.
- Up to 64.000 doors & iLockers.
- Password protected operator's profiles.
- 256 Calendars.
- 30 Time periods.
- 256 Time zones.
- Available with Salto database engine or MSSQL data base compatible.
- Connection to online units through TCP IP protocols using existing LAN & WAN networks.
- Multistation capabilities.
- Department Operator management for big complex like universities multinationals, etc.
- Integrable with others software systems through SHIP (Salto Host Interface Protocol) protocols, and dynamic database synchronisation.
- SVN capabilities in order to manage the XS4 stand alone electronic handle sets and control units:
  - The ability to add or delete access privileges at will to the ID carriers.
  - The ability to program in 256 different time zones.
  - Carry out updating tasks changing access times/days using up to 256 different calendars.
  - The ability to validate the any change made in the access plan on any SVN on-line wall reader.
  - The ability to add security through additional authenticated validation procedures including pin codes as well the ability to blacklist cards from the system.
  - On card audit-trailing to track staff or visitor movement.
  - Lock specific battery power data is registered on any card using the lock – staff or visitor – and transferred back to the PC.
  - Control software via any update reader just by using the system.
- Adhoc audit trail reports managed by the user.
- Reports Export to Excell, txt, etc.

## Technical requirements:

- Operative System: Windows, 98, Millenium, 2000, NT, 4.0. o XP
- Ram Memory: 64MB (min.), 128MB, (recommended)
- Available Hard Disc space: 50 MB. (Aprox. depending on the data base)
- MDAC version 2.1 or higher
- Processor: Pentium II
- CD drive
- 1 serial port

## Management tools:

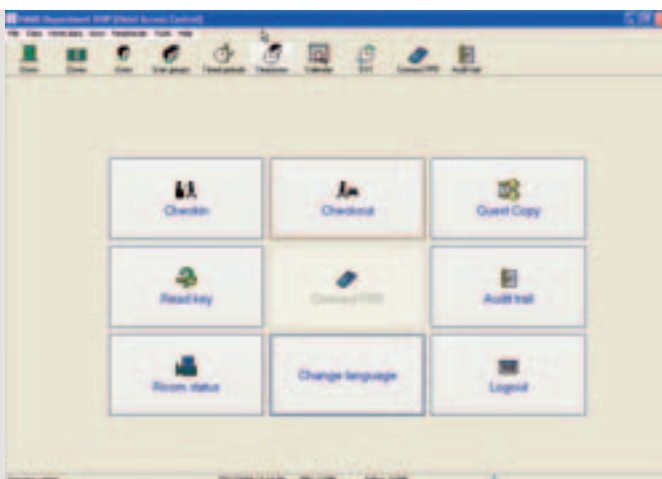
- DDBB Compact and repair.
- Roll call.
- Automatic back up.
- SVN automatic capabilities.
- Import Export.
- Advanced reports.
- Online Units monitorization.

# ACCESS CONTROL MANAGEMENT

## Software Hams:

Salto has developed HAMS (Hotel Access Management Software) in order to provide an extremely useful tool for the control of hotel access and guest management.

HAMS is suitable for small projects controlling 10 rooms up to large resort based properties controlling thousands of rooms. Both guest rooms and back of house doors are managed in one system and HAMS can control both off line and on line units centrally. The software is network ready and can be installed on as many PC work stations as required.



## Versions:

- HAMS 100 up to 100 users and 4 on line doors.
- HAMS 500 up to 500 users and 8 on line doors.
- HAMS Excellence up to 64.000 users and 16 on line doors.
- HAMS Connected up to 64.000 users and unlimited on line doors.
- HAMS Department Operator up to 64.000 users, unlimited on line doors and department operator management.
- Hams Department Operator Ship (SALTO Hosting Interface Protocol).

## Main features:

- Up to 64.000 users & guests.
- Up to 64.000 doors & rooms & iLockers.
- Password protected operator's profiles.
- Hotel front office interface.
- 256 Calendars.
- 30 Time periods.
- 256 Time zones.
- Available with SALTO data base engine.
- PMS interfaces availables (Fidelio, hogatex, prologic, and many others).
- Energy saving management.
- Connection to online units through TCP IP protocols using existing LAN & WAN networks.
- Multistation capabilities.
- Department Operator Mangement for big complex like universities multimnationals, etc.
- Integrable with others software systems through SHIP (Salto Host Interface Protocol) protocols, and dynamic database synchronisation.
- SVN capabilities in order to manage the XS4 stand alone electronic handle sets and control units:
  - The ability to add or delete access privileges at will to the ID carriers.
  - The ability to program in 256 different time zones.
  - Carry out updating tasks changing access times/days using up to 256 different calendars.
  - The ability to validate any change made in the access control plan of key cards on any SVN on-line wall reader.
  - The ability to add security through additional authenticated validation procedures including pin codes as well the ability to blacklist cards from the system.
  - On card audit-trailing to track staff or visitor movement.

- Lock specific battery power data is registered on any card using the lock – staff or visitor – and transferred back to the PC control software via any update reader just by using the system.
- Adhoc audit trail reports managed by he user.
- Reports Export to Excell, Access, txt, etc.

## Technical requirements:

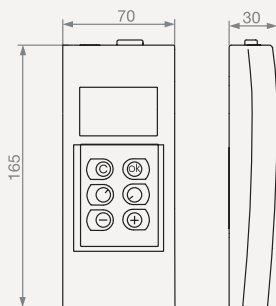
- Operative System: Windows, 98, Millenium, 2000, NT, 4.0. o XP.
- Ram Memory: 64MB (min.), 128MB, (recommended).
- Available Hard Disc space: 50 MB (Aprox. depending on the data base)
- MDAC version 2.1 or higher.
- Processor: Pentium II.
- CD drive.
- 1 serial port.

## Management tools:

- DDBB Compact and repair.
- Roll call.
- Automatic back up.
- SVN automatic capabilities.
- Import Export.
- Advanced reports.
- Online Units monitorization.

**PPD:**  
**Portable Programming Device**

The SALTO Portable Programmer device is the messenger between the computer and the lock.

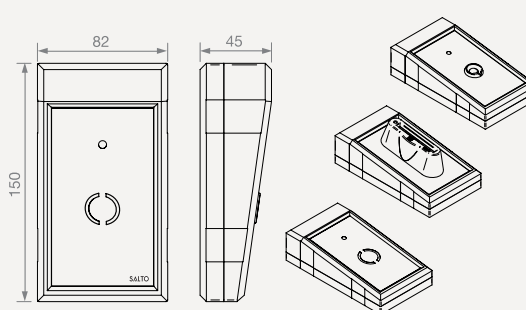


**Encoder:**

SALTO encoder is a compact device which reads, encodes and update cards. Available different versions depending on the PC connection (Port serie, ethernet).

**Technical data:**

- 12 v/ 500mA 6VA adaptor included.
- Connection to the PC: Serial RS232, Ethernet/Wifi, or USB.



**Main features:**

- Initialize doors.
- Collect audit trail.
- Update locks (door profile & internal clock).
- Door diagnostic.
- Emergency opening.
- Multilingual.

**Technical data:**

- Power supplied: 3 alkaline batteries - LR03 - AAA 1,5V
- Connection to lock: cable included
- Different languages available
- PC connection: Serial RS232, USB (2007)

**Desktop reader:**

Created for the Hotel environment, the SALTO desk top reader is designed to read some data from the R&W carriers and send to an external device, usually a Point of Sale terminal.

This can be useful in a PMS environment and works with industry standard protocol.

**Main features:**

- Configuration by dip switches to control the data to be read and the kind of interfaces with external device.
- The interface with the external device can be RS232, OMRON and WIEGAND.

**Technical data:**

- Power supply: 12v DC source (included).
- Connection to the external device: 9 pin D-type female connector (to be connected to serial port).
- Data read by the WRADAPT: ROM CODE, TRACKS ON KEY, WIEGAND CODE.

# CARRIERS



## Carriers:

SALTO carriers are available in a wide range of versions to suit individual user's needs. Whatever carrier you choose, all work effortlessly and include Contact Smart Card, Contactless Proximity and iButton technologies.

All carriers are easy to use, are SALTO Virtual Net (SVN) compatible and are protected and encrypted in order to provide high levels of data security.

Key benefits include:

- Meet ISO Standards.
- Printable for personalisation.
- Hidden key option with chip built into special carriers.
- Water proof.
- Ease of use for people with disabilities.
- Ability to use the SALTO Virtual Net (SVN).
- Secure, copyproof data carrier for high security.
- Strong, ergonomic design for long life.
- High resistance to variations in weather conditions.
- Comfortable to use - can be carried on a key ring alongside "traditional keys".
- Multiplication capabilities\*.

### iButton Technology Carriers:

- Available as iButton R&W 512bytes.
- Available as iButton R&W 2Kbytes.
- Available as iButton Bracelets R&W 512bytes.
- Available as iButton Bracelets R&W 2Kbytes.

### Contact Smart Cards:

- Available as contact smart cards ISO 256bytes protected.
- Available as contact smart cards ISO 192bytes protected + encrypted.
- Available as contact smart cards ISO 2Kbytes protected + encrypted.

### Contactless Smart carriers:

SALTO is compatible with a wide range of RFID Technologies, operating on the industry standard frequency of 13.56 MHz. These include:

#### Mifare NXP (former Phillips)

- ISO 14.443A, ISO 14.443B and ISO 15.693 (Vicinity).
- Desfire.
- Available as Mifare RFID Smart Cards 1024bytes protected & encrypted.
- Available as Mifare RFID Smart Cards 4Kbytes protected & encrypted.
- Available as Mifare RFID Smart Fobs 1024bytes protected & encrypted.
- Available as Mifare RFID Smart Fobs 4Kbytes protected & encrypted.
- Available as Mifare RFID Smart Bracelets 1024bytes protected & encrypted.
- Available as Mifare RFID Smart Bracelets 4Kbytes protected & encrypted.
- Available as Mifare RFID Smart Stickers 1024bytes protected & encrypted.
- Available as Mifare RFID Smart Stickers 4Kbytes protected & encrypted.
- Available as Mifare RFID Smart watches 1Kbyte protected & encrypted.

#### Legic

- Available as Legic RFID Smart Cards 256bytes protected & encrypted.
- Available as Legic RFID Smart Cards 1Kbyte protected & encrypted.
- Available as Legic RFID Smart Fobs 256bytes protected & encrypted.
- Available as Legic RFID Smart Fobs 1Kbyte protected & encrypted.
- Available as Legic RFID Smart Bracelets 256bytes protected & encrypted.
- Available as Legic RFID Smart Bracelets 1Kbyte protected & encrypted.
- Available as Legic RFID Smart Stickers 256bytes protected & encrypted.
- Available as Legic RFID Smart Stickers 1Kbyte protected & encrypted.

#### HID I-Class

At request

#### Inside PicoPass

At request

## Corporate

Since its inception in 2001, SALTO Systems has grown to be the market leader in state-of-the-art electronic access control systems.

Recognising the need for a new access control concept, SALTO has developed a wide range of innovative products such as the SALTO Virtual Network and XS4 access control platform, while our electronic escutcheons, wall readers and on-line and off-line control units now control security access for a growing range of end users from Airports to Hospitals, Banks to Government Buildings and Universities to Hotels.

Our brand new HQ and high capacity manufacturing facility is fully equipped with the latest technology for JIT (Just in Time) manufacturing while substantial ongoing investment in a dedicated RD&I team (Research, Development and Innovation) enables us to stay at the cutting edge of modern mechanical, electronic and software design.

This team, working with other European partners as part of an international Research and Development initiative aimed at developing a new wireless access control system, has been awarded the prestigious EUREKA label.



This is an intergovernmental initiative that aims to enhance European competitiveness through support to businesses, research centres and universities who carry out pan-European projects to develop innovative products, processes and services.

Our distribution partner network now covers more than 60 countries to service international growth, and we have branch offices in Spain, UK, USA, Canada, Mexico, Portugal, Malaysia and VAE, with more planned to open in other countries.

At SALTO we are determined to remain the best at what we do - both now and in the future. We never forget you have a choice, and we are committed to providing uncompromising standards of excellence both in our access control products and in our service to you, our customers.

Technology is only useful if it improves people's lives. Our access control systems aim to do just that. So if you need a better, more efficient way to secure and control your building, take a look at SALTO. Jump!

